

ORGANIZATION FORMAT OF GANITA SUTRAS

Step – 17: Ganita Sutra-2 and Ganita Upsutra-2

1. Ganita Upsutra-1 manifests a proportionality symmetry rule. Its applied value is the ‘multiples / tables’ / multiplication as repeated addition.
2. Ganita Upsutra-2 manifests a rule of asymmetry. Its focus is upon ‘remainders’. Division as reverse of multiplication, in a situation when remainder is not zero, makes the process of reversal being not sufficient to cover as in case of ‘7’ = $2 \times 3 + 1$, with 1 less than 3 will not permit exhaustive coverage for 7 by repeated subtraction therefrom of ‘3’ as $7 - 3 = 4$ and $4 - 3 = 1$ which is greater than zero and is less than three.
3. One may have a pause and recapitulate the augmented working rule for whole range of place values reached at by the simultaneous applications of the rules of Ganita Sutra-2 and Upsutra-1.
4. This naturally would be a coverage for odd as well as even place value systems.
5. However even numbers permitting exhaustive coverage through repeated subtraction of ‘2’ in respect of any even number, which will not be possible in case of odd numbers, so odd and even place value systems emerge to be of different features.
6. Vedic systems approach numbers by availing for them the formats of hyper cubes.
7. The prominent features of hyper cubes being availed for place value system is the domain boundary ratio of hyper cubes accepting formulation $A^n : 2n B^{n-1}$.

8. Here it would be relevant to note that as the boundary of hyper cube n permit split into $2n$ components, as such, as far as even place value systems are concerned for them the boundaries formats of hyper cubes become handy to be availed.
9. Illustratively for ten place value system, the format of creative boundary (4-space in the role of boundary of 5-space) stands availed.
10. Therefore in general, for $2n$ place value system, the format of boundary of hyper cube n is available.
11. However as far as the odd place value systems are concerned, in respect of them the domain folds of hyper spheres are availed.
12. Here it would be relevant to note that as is in the case of circle as hyper circle 2 and sphere as hyper sphere 3, while their boundaries remain integrated whole but their domains split into components.
13. Illustratively the circumference of a circle is ' d ' while area of the circle is ' $d^2/4$ '.
14. Likewise the surface area of sphere is ' d^2 ' while the volume of sphere is ' $d^3/6$ '.
15. To have more insight about ten place value system along hyper cube 5 format, one shall permit the transcending mind to glimpse through the structural set up of hyper cube 5.
16. One shall sit comfortably and permitting the transcending mind to have a prolonged sitting of a deep trans and to comprehend and imbibe the features of creative boundary (4-space as boundary) of transcendental domain (5-space as domain).
17. It would be blissful to be face to face with the phenomenon of Lord Brahma, creator the Supreme multiplying ten fold / as ten Brahmas in Shiv lok (5-space).

18. One of the basic features of 4-space is that it has transcendental origin (5-space as origin).
19. With it, the ten components of creative boundary of 5-space shall be manifesting themselves as ten hyper cubes 4 and thereby there shall be an availability of 10 transcendental origins (5-space seats).
20. Each of the creative boundary component (hyper cube 4) with transcendental origin (origin as 5-space seat) shall be permitting transcendence from 5-space domain into 4-space domain and thereby transcendental values (of 5-space) would get super imposed upon 4-space and fulfilling it with transcendental values which shall be manifesting as hyper cube 5 and thereby there would be an availability of ten hyper cubes 5.
21. It is this transcendental phenomenon of hyper cube 5 multiplying itself as ten hyper cubes 5 within ten creative boundary components of start with hyper cube 5, thereby would be manifesting in all $10 \times 10 = 100$ creative boundary components for so emerging for ten hyper cubes 5.
22. One may have a pause here and permit the transcending mind to chase this transcendence phenomenon of ten creative boundary components giving place to 100 creative boundary components and in that sequential order further unfolding to be the sequential manifestation of creative boundary components in the order and sequence of $10^1, 10^3, 10^3, 10^4, \dots$.
23. One may further have a pause here and to comprehend and imbibe the sequential order of emergence of creative components step by step as $10^1, 10^3, 10^3, \dots$ parallel to the working rule of 'one more than before' of Ganita Sutra-1.
24. Here it would be relevant to note that this sequential order and its above composing rule, in a way is approaching 10 as 01.
25. The symmetry rule would further help chase 9 as 1, 8 as 1 and so on.
26. Here it further would be relevant to note that hyper cube n accepts $2n+1$ versions parallel to $2n+1$ geometries of n space.

27. In particular hyper cube 4 accepts 9 versions parallel to 9 geometries range of 4-space.

28. With this, it would be blissful to comprehend and to imbibe the features of numerals 1 to 9 availing the formats of 9 versions range of hyper cube 4 parallel to 9 geometries range of 4-space and ahead ten place value to be provided by split of creative boundary of hyper cube 5 into 10 components of the format of hyper cube 4.

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